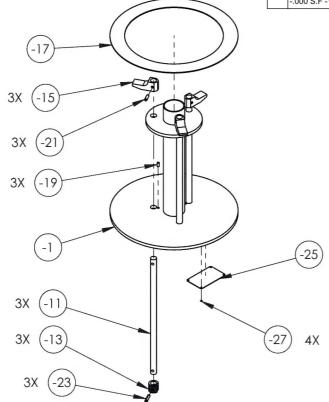
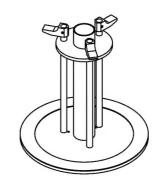
|   |     | REVISIONS  |           |         |          |
|---|-----|--|-----------|---------|----------|
| ŀ | REV | DESCRIPTION  | DATE      | INITIAL | APPROVED |
|   | 1   | CH'D T/N WAS RBEA91-3293-00 IS RBE332A91-3293-003 CH'D DIM WAS 3X Ø.571 IS 3X Ø.578 S.F115 CH'D DIM WAS 3X Ø.571 IS 3X Ø.578 S.F1111 CH'D DIM WAS 2X Ø.219 IS 2X LIMITS Ø.219 TO .224, -13 & -15 CH'D DIMS WAS Ø.219 IS LIMITS Ø.219 TO .224, WAS Ø.563 S.F11 IS Ø.565 +.002000 S.F11. CH'D TOLERANCE ON NON-CRITICAL PARTS. | 5/19/2014 | DPD     | RJC      |





| ASSY<br>QTY | ASSY<br>QTY | B/O | Part # | UNIT | Description    | Material      | B/O INFORMATION OR SPECIFICATIONS     | PG. | 2        |
|-------------|-------------|-----|--------|------|----------------|---------------|---------------------------------------|-----|----------|
|             | Х           |     | -1     | 1    | WELDMENT       |               |                                       | 2   | 1        |
|             | 1           |     | -3     |      | TOP PLATE      | A36 P & O     | 5/16 X Ø12                            | 3   | L        |
|             | 1           |     | -5     |      | BOTTOM PLATE   | A36 P & O     | 5/16 X Ø5-1/2                         | 5   | 1        |
|             | 1           |     | -7     |      | TUBE           | DOM           | Ø2.0 X .083 WALL x 12                 | 4   | 1        |
|             | 1           |     | -9     |      | TAB            | A36 P & O     | 3/8 X 2 X 2-1/2                       | 6   |          |
|             |             |     | -11    | 3    | ROD            | SP            | Ø9/16 X 13-1/4                        | 7   | TITI     |
|             |             |     | -13    | 3    | KNOB           | 1018          | Ø1 X 1                                | 8   | L        |
|             |             |     | -15    | 3    | FOOT           | A36 P & O     | 1 X 1 X 2-1/2                         | 9   | DW       |
|             |             |     | -17    | 1    | GASKET         | GASKET RUBBER | 1/16 X Ø12 GASKET SPECIALTIES         | 10  | MA       |
|             |             | B/O | -19    | 3    | DOWEL PIN      | STEEL         | Ø3/16 X 7/16 MCMASTER-CARR #98381A504 | 1   | Н        |
|             |             | B/O | -21    | 3    | SPRING PIN     | S.S.          | Ø7/32 X 3/4 MCMASTER-CARR #92373A309  | 1   | .x       |
|             |             | B/O | -23    | 3    | SPRING PIN     | S.S.          | Ø7/32 X 1 MCMASTER-CARR #92373A313    | 1   | .X<br>.X |
|             |             | B/O | -25    | 1    | DART PLACARD   | ALUMINUM      | RED BARN #RB41011                     | 1   | 1. [     |
|             |             | B/O | -27    | 4    | #2 DRIVE SCREW | COATED STEEL  | 1/8 MCMASTER-CARR #90081A074          | 1   | 2. [     |
|             | ASSY<br>-1  |     |        |      |                |               |                                       |     | sc       |

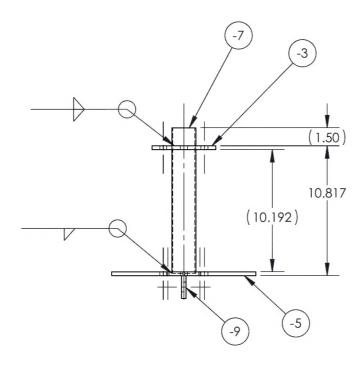
- NOTE:
  1. PRESS 3 -19 (DOWEL PINS) INTO -1 (WELDMENT),
  PINS ARE FLUSH TO INSIDE SURFACE.
- 2. ENGRAVE PLACARD T/N, S/N, & "WORKING LOAD 360 LBF (160 daN)
  TESTING LOAD 720 LBF (320 daN)"

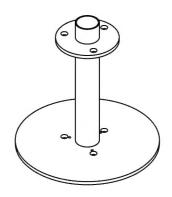


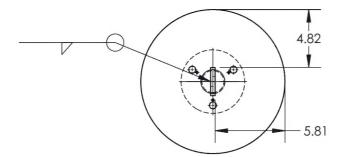
| 7 | REDUCTION MODULE SLING                                 |                 |            |          |  |  |  |
|---|--|-----------------|------------|----------|--|--|--|
| 8 | REBUGITOR  | 1000            |            |          |  |  |  |
| 9 | RBE332A  | 91-3293         | 3-00       | REV<br>1 |  |  |  |
| 0 | MAT'L  | DRAWN BY:       | GILBERT    | •        |  |  |  |
| 1 | UNLESS OTHERWISE SPECIFIED                             | APPROVED 7 Weil |            |          |  |  |  |
| 1 | DIMENSIONS ARE IN INCHES  .XXX ± .005 FRACTIONS ± 1/32 | HEAT<br>TREAT   |            |          |  |  |  |
| 1 | .XX ± .01 ANGLES ±.5°                                  | FINISH          |            |          |  |  |  |
| 1 | 1. BREAK ALL SHARP EDGES .015 x 45° SPEC               |                 |            |          |  |  |  |
|   | OR .015R<br>2. DIMENSIONAL LIMITS APPLY AFTER          | USED ON MODEL   |            |          |  |  |  |
| 1 | PLATING PLATING  | AS332           |            |          |  |  |  |
|   | SCALE 1.9 DATE 4/                                      | 22/2011         | SHEET 1 OF | 11       |  |  |  |

 REVISIONS

 REV
 DESCRIPTION
 DATE
 INITIAL
 APPROVED



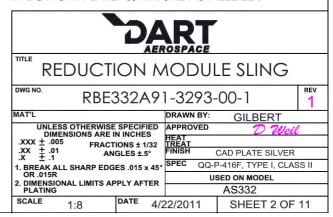




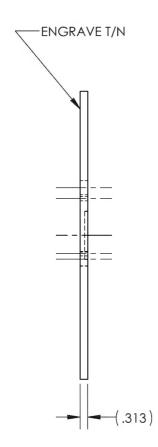
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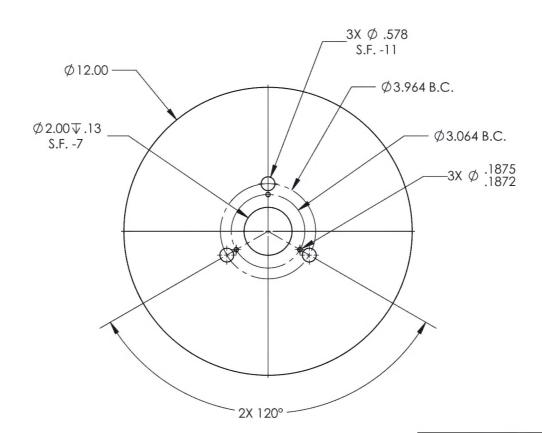
WELDMENT

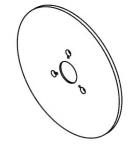
NOTE: ALIGN 3 HOLES IN TOP PLATE -3 WITH 3 HOLES IN BOTTOM PLATE -5, FIXTURE AS NEEDED.



|     | REVISIONS                                   |           |         |          |
|-----|---|-----------|---------|----------|
| REV | DESCRIPTION                                 | DATE      | INITIAL | APPROVED |
| 1   | -3 CH'D DIM WAS 3X Ø.571 IS 3X Ø.578 S.F11. | 5/19/2014 | DPD     | RJC      |







TOP PLATE

REDUCTION MODULE SLING

DWG NO. RBE332A91-3293-00-3 **GILBERT** 

MAT'L A36 P & O DRAWN BY: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

.XXX ± .005 FRACTIONS ± 1/32 FRISH

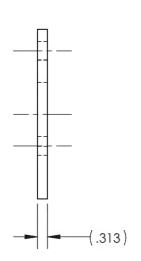
.X ± .1 ANGLES ±.5° SPEC

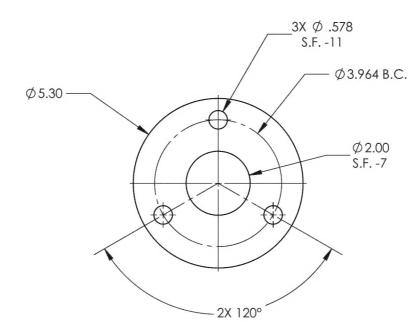
SEE -1 WELDMENT

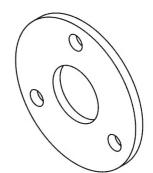
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING SCALE DATE 1:4

USED ON MODEL AS332 4/22/2011 SHEET 3 OF 11

|     | REVISIONS                                   |           |         |          |
|-----|---|-----------|---------|----------|
| REV | DESCRIPTION                                 | DATE      | INITIAL | APPROVED |
| 1   | -5 CH'D DIM WAS 3X Ø.571 IS 3X Ø.578 S.F11. | 5/19/2014 | DPD     | RJC      |







(-5)

**BOTTOM PLATE** 

|  | RT                     |  |  |
|--|------------------------|--|--|
| REDUCTION N  | MODULE SLING           |  |  |
| RBE332A9   | 1-3293-00-5            |  |  |
| MAT'L A36 P & O  | DRAWN BY: GILBERT      |  |  |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES | APPROVED D Weil        |  |  |
| .XXX ± .005 FRACTIONS ± 1/32                           | HEAT<br>TREAT          |  |  |
| .XX ± .01 ANGLES ±.5°                                  | FINISH SEE -1 WELDMENT |  |  |
| 1. BREAK ALL SHARP EDGES .015 x 45                     | , SPEC                 |  |  |
| OR .015R<br>2. DIMENSIONAL LIMITS APPLY AFTER          | USED ON MODEL          |  |  |
|  |                        |  |  |
| PLATING  | AS332                  |  |  |

REVISIONS This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR. REV INITIAL APPROVED DESCRIPTION DATE Ø2.000) .083) - 12.13 REDUCTION MODULE SLING DWG NO. REV RBE332A91-3293-00-7 MAT'L DOM DRAWN BY: **GILBERT** UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

XXX ± .005 FRACTIONS ± 1/32

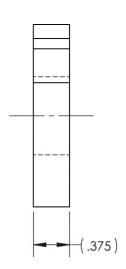
XX ± .01 ANGLES ± .5°

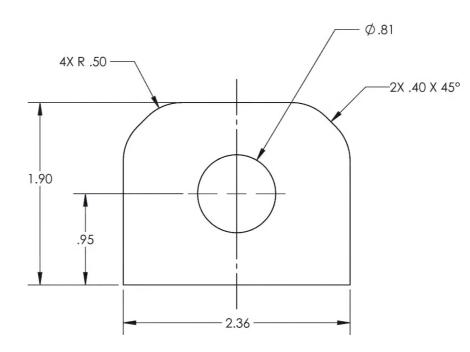
X ± .1 SPECIFICATIONS + 1/32

FINISH

EDEC SEE -1 WELDMENT 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING USED ON MODEL TUBE AS332 DATE 4/22/2011 SCALE SHEET 5 OF 11 1:3

| REVISIONS |             |      |         |          |
|-----------|-------------|------|---------|----------|
| REV       | DESCRIPTION | DATE | INITIAL | APPROVED |







UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

.XXX ± .005 FRACTIONS ± 1/32 TREAT

.XX ± .01 ANGLES ± .5°

.X ± .1

1:1

SCALE

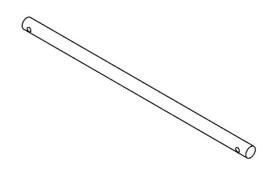
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING

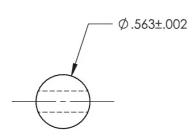
USED ON MODEL AS332 DATE 4/22/2011 SHEET 6 OF 11

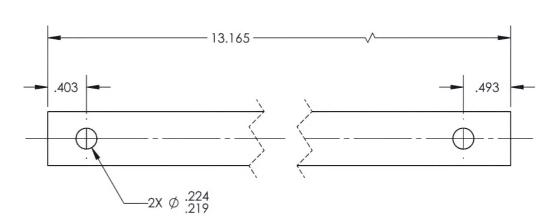
REV

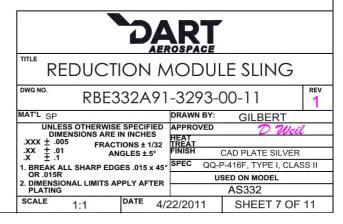
TAB

| REVISIONS |   |           |         |          |
|-----------|---|-----------|---------|----------|
| REV       | DESCRIPTION   | DATE      | INITIAL | APPROVED |
| 1         | -11 CH'D DIM WAS 2X Ø.219 IS 2X LIMITS Ø.219 TO .224. | 5/19/2014 | DPD     | RJC      |





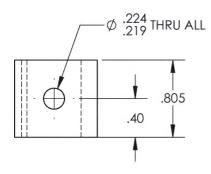


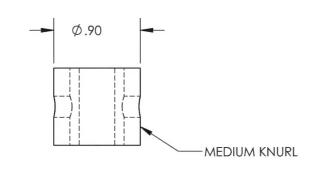


-11)

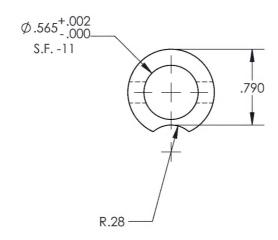
ROD

|    |    | REVISIONS   |           |         |          |
|----|----|---|-----------|---------|----------|
| RI | ΕV | DESCRIPTION   | DATE      | INITIAL | APPROVED |
|    | 1  | -13 CH'D DIMS WAS Ø.219 IS LIMITS Ø.219 TO .224, WAS Ø.563 S.F11 IS Ø.565 +.002000 S.F -11. | 5/19/2014 | DPD     | RJC      |











KNOB



REDUCTION MODULE SLING

DWG NO.

RBE332A91-3293-00-13 DRAWN BY: **GILBERT** 

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

.XXX ± .005 FRACTIONS ± 1/32 TREAT

.XX ± .01 ANGLES ± .5° FINISH

X ± .1 SPEC OO.

1. BREAK ALL SHARP EDGES .015 x 45\*
OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
SPEC QQ-P-416F, TYPE I, CLASS II
USED ON MODEL
AS332

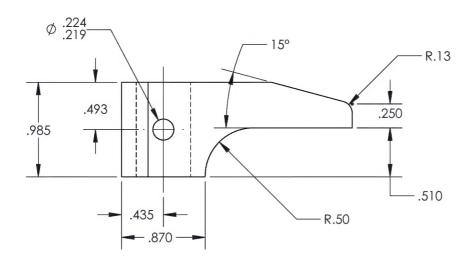
SCALE

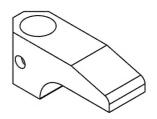
MAT'L 1018

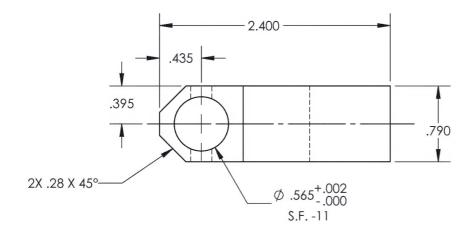
DATE 4/22/2011 SHEET 8 OF 11

CAD PLATE SILVER

|     | REVISIONS   |           |         |          |
|-----|---|-----------|---------|----------|
| REV | DESCRIPTION   | DATE      | INITIAL | APPROVED |
| 1   | -15 CH'D DIMS WAS Ø.219 IS LIMITS Ø.219 TO .224, WAS Ø.563 S.F11 IS Ø.565 +.002000 S.F -11. | 5/19/2014 | DPD     | RJC      |









REDUCTION MODULE SLING

DWG NO.

SCALE

RBE332A91-3293-00-15

REV

MAT'L A36 P & O DRAWN BY: **GILBERT** 

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

.XXX ± .005 FRACTIONS ± 1/32 TREAT

.XX ± .01 ANGLES ± .5° FINISH

X ± .1 SPEC OO.

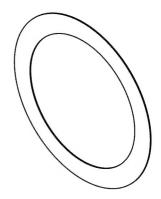
CAD PLATE SILVER

1. BREAK ALL SHARP EDGES .015 x 45\*
OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
SPEC QQ-P-416F, TYPE I, CLASS II
USED ON MODEL
AS332

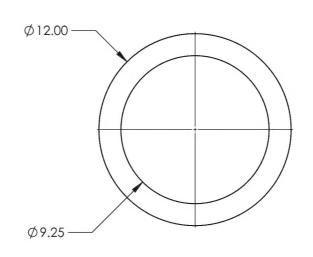
**FOOT** 

1:1

DATE 4/22/2011 SHEET 9 OF 11







REDUCTION MODULE SLING

DWG NO.

SCALE

RBE332A91-3293-00-17

REV

MAT'L GASKET RUBBER DRAWN BY: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES XXX ± .005 FRACTIONS ± 1/32 FINISH XX ± .01 ANGLES ±.5° SPEC

DATE

4/22/2011

1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING

1:6

USED ON MODEL AS332

**GILBERT** 

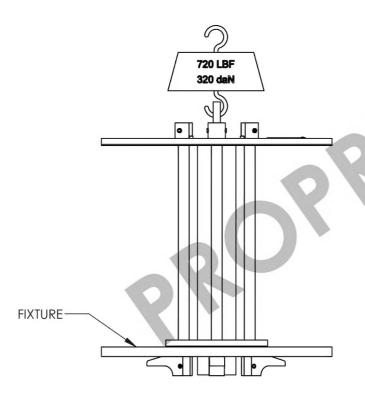
SHEET 10 OF 11

**GASKET** 

|     | REVISIONS   |      |         |          |
|-----|-------------|------|---------|----------|
| REV | DESCRIPTION | DATE | INITIAL | APPROVED |

RED BARN MACHINE 190 S. DANEBO AVE., EUGENE OR. 97402 (541)344-9953; fax (541)344-3863 e-mail; sales@redbarn.net

FIRST ARTICLE WEIGHT TEST



INSPECTION & TESTING PROCEDURES FOR THE RBEA91-3263-00 REDUCTION MODULE SLING. THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE.

REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

## FIRST ARTICLE WEIGHT TEST

- 1. <u>AFTER INSPECTION</u>, PLACE REDUCTION MODULE SLING IN A APPROPRIATE FIXTURE. LIFT USING A TAB ON BOTTOM.
- 2. LIFT UNTIL THE SCALE READS 720 lbs. (320 daN), FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, OR DISTORTION.
- 3. LOWER REDUCTION MODULE SLING AND RE-INSPECT, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

| INSPECTOR_ |  |
|------------|--|
| TESTER_    |  |
| S.N        |  |
| DATE       |  |



190 S. Danebo Ave., Eugene, OR. 97402 1-800-556-4166 e-mail: sales@dartaero.com dartaerospace.com

- GC

REDUCTION MODULE SLING

| DWG NO.           |     |        | REV     |       |                 |  |
|-------------------|-----|--------|---------|-------|-----------------|--|
| RBE332A91-3293-00 |     |        | 0 1     | CUSTO | CUSTOMER 1 OF 1 |  |
| SCALE             | 1:5 | DATE 8 | /1/2011 | SHEET | 11 OF 11        |  |